

Abstract

The present patent describes a biocompatible composite made of a first fibrous layer attached to a three-dimensional inter-connected open cell porous foams that have a gradient in composition and/or microstructure through one or more directions. These composites can be made from blends of absorbable and biocompatible polymers. These biocompatible composites are particularly well suited to tissue engineering applications and can be designed to mimic tissue transition or interface zones.

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PROGRESSIVE DESIGN